

1746

PATENT  
ATTORNEY DOCKET NO.: VOSS1160

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Rosenmund et al.  
Application No.: 09/807,499  
Filing Date: November 5, 2001  
Title: NON-DESENSITIZING AMPA-RECEPTORS

Art Unit: 1746  
Examiner: Unassigned

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL SHEET

Sir:

Transmitted herewith for the above-identified application, please find:

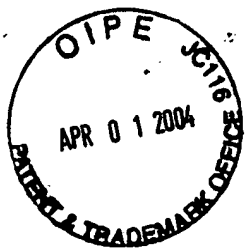
1. Information Disclosure Statement (2 pages);
2. Form PTO-1449 (2 pages);
3. Nineteen References; and
4. Return postcard.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on March 29, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Karen LePari*

Karen LePari



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**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on March 29, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Karen LePari*

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Page 2



PATENT  
Attorney Docket No. VOSS1160

This Information Disclosure Statement is being filed prior to receipt of a First Office Action on the merits. Therefore, no fee is deemed necessary. However, the Commissioner is hereby authorized to charge any amounts required by this filing, or credit any overpayment, to Deposit Account No. 50-1355.

Respectfully submitted,

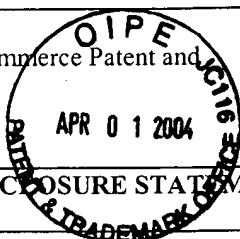
Date: March 29, 2004

A handwritten signature in cursive script, reading "Emanuel J. Vacchiano".

Emanuel J. Vacchiano, J.D., Ph.D.  
Registration No. 43,964  
Telephone: (858) 638-6754  
Facsimile: (858) 677-1465

GRAY CARY WARE & FREIDENRICH LLP  
4365 Executive Drive, Suite 1100  
San Diego, California 92121-2133  
USPTO Customer No. 28213

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.:</b> VOSS1160	<b>Serial No.:</b> 09/807,499
	<b>Applicants:</b> Rosenmund et al.	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> November 5, 2001	<b>Group Art Unit:</b> 1746



### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	AA	0 574 257 A2	10/06/1993	EUROPE			

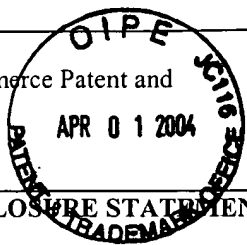
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AB	Chiu, Joanna et al., "Molecular Evolution of Glutamate Receptors: A Primitive Signaling Mechanism that Existed Before Plants and Animals Diverged", <i>Mol. Biol. Evol.</i> , 16(6):826-838, 1999.
	AC	Hamill, O.P. et al., "Improved Patch-Clamp Techniques for high-Resolution Current Recording from Cells and Cell-Free Membrane Patches," <i>Pflugers Arch.</i> , 391:85-100 (1981).
	AD	Hollmann, Michael et al., "Cloning by functionale expression of a member of the glutamate receptor family," <i>Nature</i> , 342:643-648, (1989).
	AE	Hollmann, Michael et al., "Cloned Glutamate Receptors," <i>Annu. Rev. Neurosc.</i> , 17:31-108 (1994).
	AF	Jahr, C.E. et al., "Gluatamate activates multiple single channel conductances in hippocampal neurons," <i>Nature</i> , 325:522-525 (1987).
	AG	Krupp, Johannes J. et al., "N-Terminal Domains in the NR2 Subunit Control Desensitization of NMDA Receptors," <i>Neuron</i> , 20:317-327 (1998).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.:</b> VOSS1160	<b>Serial No.:</b> 09/807,499
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	<b>AH</b>	Lam, Hon-Ming, "Glutamate-receptor genes in plants," <i>Nature</i> , 396:125-126 (1998).
	<b>AI</b>	Methfessel, C. et al., "Patch clamp measurements on <i>Xenopus laevis</i> oocytes: currents through endogenous channels and implanted acetylcholine receptor and sodium channels," <i>Pflugers Arch.</i> , 407:577-588 (1986).
	<b>AJ</b>	Mosbacher, J. et al, "A Molecular Determinant for Submillisecond Desensitization in Glutamate Receptors" <i>Science</i> , 266:1059-1062 (1994).
	<b>AK</b>	Partin, Kathryn M. et al, "Structural Determinants of Allosteric Regulation in Alternatively Spliced AMPA Receptors", <i>Neuron</i> , 14:833-843 (1995).
	<b>AL</b>	Partin, Kathryn M. et al, "AMPA Receptor Flip/Flop Mutants Affecting Deactivation, Desensitization, and Modulation by Cyclothiazide, Aniracetam, and Thiocyanate", <i>The Journal of Neuroscience</i> , 16(21):6634-6647 (1996).
	<b>AM</b>	Sommer, Bernd et al, "Flip and Flop: A Cell-Specific Functional Switch in Glutamate-Operated Channels of the CNS", <i>Science</i> , 249:1580-1585 (1990).
	<b>AN</b>	Stern-Bach, Yael et al, "Agonist Selectivity of Glutamate Receptors Is Specified by Two Domains Structurally Related to Bacterial Amino Acid-Binding Proteins", <i>Neuron</i> , 13:1345-1357 (1994).
	<b>AO</b>	Stern-Bach, Yael et al, "A Point Mutation in the Glutamate Binding Site Blocks Desensitization of AMPA Receptors", <i>Neuron</i> , 21:907-918 (1998).
	<b>AP</b>	Sutcliffe, Michael J. et al, "Three-Dimensional Models of Non-NMDA Glutamate Receptors", <i>Biophysical Journal</i> , 70:1575-1589 (1996).
	<b>AQ</b>	Swanson, Geoffrey T. et al., "Single-Channel Properties of Recombinant AMPA Receptors Depend on RNA Editing, Splice Variation, and Subunit Composition", <i>The Journal of Neuroscience</i> , 17(1):58-69 (1997).
	<b>AR</b>	Uchino, Shigeo et al, "Mutations in a putative agonist binding region of the AMPA-selective glutamate receptor channel", <i>FEBS</i> , 308(3):253-257 (1992).
	<b>AS</b>	Villarroel, Alvaro et al, "Glycine-Independent NMDA Receptor Desensitization: Localization of Structural Determinants", <i>Neuron</i> , 20:329-339 (1998).

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